

WHAT IS CLAIMED IS:

1. A nozzle information search system, wherein a data base is constructed based on nozzle catalogs in a server system installed on a network, and the nozzle user can retrieve the nozzle information by accessing the server system, characterized in
5 that the server system includes:

a first nozzle model number search means to extract the nozzle model number information from the data base by inputting the search criteria of a first level;

a second nozzle model number search means adapted to extract the nozzle model number information narrowed more than the first nozzle model number
10 information by inputting more detailed search criteria than the first level;

a nozzle specification search means to search the data base for the nozzle specification information by inputting the nozzle model number information; and

a similar nozzle search means adapted to extract the nozzle model number information of nozzles having similar specifications from the data base by inputting the
15 reference nozzle information.

2. A nozzle information search system according to claim 1,
wherein the first nozzle model number search means and the second nozzle model number search means include at least a means for supplying an input form to
20 input the first-step search criteria and a means for supplying an input form to input the second-step search criteria, each step being executed by changing the page, and

wherein a display area is provided to display the search criteria already input on the display screen for displaying the input form and the display screen for displaying the search result.

3. A nozzle information search system according to claim 1,
wherein the first nozzle model number search means includes a first means to
supply an input form for inputting the nozzle category as a search criteria, a second
means to supply an input form for inputting the spray pattern, and a third means to
5 supply an input form for inputting the nozzle specification.

4. A nozzle information search system according to claim 1,
wherein the second nozzle model number search means includes a fourth
means to supply an input form for inputting the nozzle category, a fifth means to
10 supply an input form for inputting the inlet direction of an fluid, a sixth means to
supply an input form for inputting the spray pattern and a seventh means to supply an
input form for inputting the nozzle specification, as search criteria.

5. A nozzle information search system according to claim 3,
15 wherein the input form is so configured that a plurality of the spray patterns are
displayed by illustration to permit selection of one of the spray patterns.

6. A nozzle information search system according to claim 4,
wherein the input form displays by illustration a plurality of the inlet directions
20 and a plurality of the spray patterns, so that any one of the inlet directions and the
spray patterns are selectable.

7. A nozzle information search system according to claim 6,
wherein in the case where one of the inlet directions is selected, only the spray
25 pattern corresponding to the selected inlet direction is displayed by illustration.

8. A nozzle information search system according to claim 1, characterized by comprising:

a means to search the data base based on the reference nozzle identification
5 information that has been input;

a means to supply a display screen to display a list of reference nozzles
extracted by search and select one reference nozzle from the displayed list;

a means to supply an input form for inputting the similar criteria of nozzles
having similar specifications to the reference nozzle selected through the display
10 screen; and

a means to extract a similar nozzle by searching the data base according to the
similar criteria input by the input form.

9. A nozzle information search system according to claim 8,
15 wherein the input form is supplied in the form of table comparing the
specification of the reference nozzle with the specification of the similar nozzles.

10. A nozzle information search system according to claim 8,
wherein the similar criteria include the pressure, flow rate and spray angle
20 characteristics.

11. A nozzle information search system according to claim 10,
wherein in the presence of a plurality of combination data of the pressure value
and the flow rate value of the reference nozzle as a pair, one or a plurality of
25 combinations can be designated as the similar criteria.

12. A nozzle information search system according to claim 8,
wherein the spray pattern and the inlet direction of the fluid can be selected as
search criteria.

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13. A nozzle information search system according to claim 1, characterized
by comprising:

a display data generating means to generate the display data for displaying the
result of search by the data base search means on the computer screen of the nozzle
10 user; and

a unit conversion means in which in the case where the unit of the characteristic
value input by the nozzle user for search is different from the unit displayed in the
nozzle catalog, one of the units is converted to unify the two units;

wherein the data base search means is so configured that the data base is
15 searched based on the result of conversion by the unit conversion means, and

wherein the display data is generated in such a manner that the unit to be
displayed can be selected by the nozzle user through the search result display screen.

14. A nozzle information search system according to claim 13,
20 wherein the data base is constructed based on the unit described in the nozzle
catalog.

15. A nozzle information search system according to claim 13,
wherein the display data is generated in such a manner that the units displayed
25 by the nozzle manufactures can be collectively converted by selecting the unit to be

displayed.

16. A nozzle information search system according to claim 13,
wherein the display data is generated in such a manner that the unit input by the
5 nozzle user on the nozzle search screen is visually recognizable in the unit selector for
collective unit conversion on the first search result display screen.

17. A nozzle information search system according to claim 13,
wherein the nozzle information including the nozzle manufactures and the
10 model numbers retrieved are displayed as a list on the search result display screen and
the display data is generated in such a manner as to display the detailed information on
the nozzle of the particular model number by selecting a specific one of the model
numbers.

15 18. A nozzle information search system according to claim 17,
wherein the table of the pressure and flow rate can be displayed as the detailed
information and the unit conversion can be carried out at the same time.

19. A nozzle catalog data base used for the nozzle information search system
20 according to claim 1,
wherein the pressure, flow rate and the spray angle described in the catalog are
handled as a combination unit and this combination unit is registered with
corresponding nozzle model number information;

wherein in the absence of the description of the spray angle corresponding to
25 the combination of pressure and flow rate in the catalog, the appropriate one of the

spray angles described in the catalog which corresponds to the pressure is registered as a provisional spray angle;

wherein the provisional spray angle is registered together with the identification data indicating the fact that the spray angle is provisional; and

5 wherein in the case where the nozzle model number information is retrieved based on the pressure, flow rate and spray angle, the fact that the spray angle is provisional can be displayed on the search result display screen.

20. A nozzle catalog data base according to claim 19,

10 wherein in the absence of description of the spray angle corresponding to the combination of a first pressure and flow rate in the catalog but the spray angle corresponding to a different combination, the spray angle corresponding to a second pressure nearest to the first pressure is registered as a provisional spray angle.

15 21. A nozzle catalog data base according to claim 19,

wherein in the presence of description of only one spray angle, the particular spray angle is registered as a provisional spray angle.

22. A nozzle catalog data base according to claim 19, a described in any one
20 of claims 1 to 3,

wherein in the presence of description of the spray distance and the spray width in the catalog, the spray distance and the spray width converted into a spray angle is registered as a provisional spray angle together with the second identification data.

25 23. A nozzle information search system according to claim 1, wherein the

server system includes:

a page supply means to supply the search result page for displaying the nozzle information and the thumbnail image of the catalog of the particular nozzle as a result of the search by the data base search means; and

5 an electronic mail starting means arranged on the search result page;

the server system further including a page attaching means to attach the search result page to the electronic mail on the electronic mail generating screen arranged in the search result page;

10 wherein the page attaching means executes the process in such a manner as to attach the nozzle information and the thumbnail image while at the same time deleting the predetermined text information not required to be transmitted and the predetermined image information other than the thumbnail image from the page.

24. A nozzle information search system according to claim 23,

15 wherein the attached information is the HTML file and the image file of the thumbnail image.

25. A nozzle information search system according to claim 1, wherein the server system includes:

20 a means to supply a first page group generated based on a first language to supply the user with a nozzle search service;

a means to supply a second page group with the same contents as the first page group generated based on the second language;

25 a means to supply a specified page constituting a part included in the page group for explaining at least the summary of the search system; and

a guide means to guide the user to the specified page; and

wherein the specified page is generated based on at least one third language in addition to the first and second languages.

5 26. A nozzle information search system according to claim 25, wherein the server system includes:

 a second means to supply a page at the top of the search system or a page linked to the top page, at least one of the pages functioning as a language select page adapted to select one of the first, second and third languages, the system further
10 including:

 a third means to supply a first content page prepared based on the first language, arranged for explaining the table of contents of the search system and linked to the specified page prepared based on the language selected by selecting the language type;

 a fourth means to supply a second content page having the same content as the
15 first content page and prepared based on the second language; and

 a fifth means to supply a second specified page prepared based on the third language for explaining the presence of the specified page;

 wherein the guide means is so configured that the first content page is linked in the case where the first language is selected, the second content page is linked in the
20 case where the second language is selected and the second specified page is linked in the case where the third language is selected in the language select page.

27. A nozzle information search system according to claim 25,

 wherein the guide means is so configured that the second specified page is
25 linked to one of the first content page and the second content page.

28. A nozzle information search system according to claim 25,
wherein the guide means is so configured that the first content page and the
second content page are linked to the specified page and have the function to select the
5 first, second and third languages, and wherein by selecting one of these languages, the
specified page prepared based on the selected language is linked.

29. A nozzle information search system according to claim 25,
wherein at least a part of pages included in the first page group and the second
10 page group is linked to a translation site for translating the first or second language to
the third language.